Ocean Climate Laboratory - Data Format

FIELD	LENGTH	FORMAT	DESCRIPTION
1. WOD Version identifier	1	A1	Identifies WOD version - if field is numeric, format is for WOD98, field "A" is WOD01
2. Bytes in next field	1	I1	
3. Bytes in profile	from (2)	Integer	
4. Bytes in next field	1	I1	
5. OCL unique station number	from (4)	Integer	OCL station identification
6. Country code	2	A2	NODC country codes (*Appendix 2A*)
7. Bytes in next field	1	I1	
8. Cruise number	from (7)	Integer	NODC/OCL
9. Year	4	I4	
10. Month	2	I2	
11. Day	2	I2	may have a zero value
12. Time - if time is missing it's denoted as (-) in the Sig.Fig. field - if so, skip to (13)			
a. Sig. figures	1	I1	(-)if time missing
b. Total figures	1	I1	not present if (a) is negative
c. Precision	1	I1	not present if (a) is negative
d. Value	based on (b)	based on (a-c)	not present if (a) is negative
13. Latitude - if latitude is missing it's denoted as (-) in the Sig.Fig. field - if so, skip to (14)			
a. Sig. figures	1	I1	(-)if missing
b. Total figures	1	I1	not present if (a) is negative
c. Precision	1	I1	not present if (a) is negative
d. Value	based on (b)	based on (a-c)	not present if (a) is negative
14. Longitude - if longitude is missing it's denoted as (-) in the Sig.Fig. field - if so, skip to (15)			
a. Sig. figures	1	I1	(-)if missing
b. Total figures	1	I1	not present if (a) is negative
c. Precision	1	I1	not present if (a) is negative
d. Value	based on (b)	based on (a-c)	not present if (a) is negative
15. Bytes in next field	1	I1	
16. Number of Levels **(L)**	from (15)	Integer	Number of depths
17. Profile type	1	I1	(0)Observed (1)Standard level
18. # Variables in profile **(N)**	2	I2	
*Next section repeated based on number of variables in the profile (read fields 19-23 **N** times)*			
19. Bytes in next field	1	I1	read fields 19-23 **N** times
20. Variable code	from (19)	Integer	OCL variable codes (*Tables 4-6*)
21. Quality control flag for variable	1	I1	*(see Tables 4-6*)
22. Bytes in next field	1	I1	
*23. Number of Variable-specific metadata **(M)***	from (22)	Integer	if zero go to19, otherwise read fields 24-25 **M** times
*Next section repeated based on number of variable specific metadata (read fields 24-25 **M** times for each variable **(N)**)*			
24. Bytes in next field	1	I1	if zero go to 19
25. Variable-specific code	from (24)	Integer	(see *Table 8)*
***a.** Sig. figures*	1	I1	(-)if missing
b. Total figures	1	I1	not present if (a) is negative
c. Precision	1	I1	not present if (a) is negative
d. Value	based on (b)	based on (a-c)	not present if (a) is negative

OCL ASCII FORMAT FOR CHARACTER DATA, SECONDARY AND BIOLOGICAL HEADER

FIELD	LENGTH	FORMAT	DESCRIPTION
CHARACTER DATA AND PRINCIPAL INVESTIGATOR - entries 4-9 repeated based on number read in (3)			
1. Bytes in next field	1	I1	if "0" go to Second Header
2. Total bytes for character data	from (1)	Integer	
3. Number of entries **(C)**	1	I1	
IF FIELD (4) IS 1=Originators Cruise, OR 2=Originators station code (read fields 4-6 **C** times)			
4. Type of data	1	I1	(1)orig. cruise (2)orig. station
5. Bytes in next field	2	I2	
6. Character data	from (5)	A	
IF FIELD (4) IS 3=Principal investigator			
4. Type of data	1	I1	always 3
5. Number of P.I. names **(P)**	2	I2	read fields 6-9 **P** times
6. Bytes next field	1	I1	
7. Variable code	from (6)	Integer	OCL code (see *Tables 4-6*)
8. Bytes in next field	1	I1	
9. P.I. code	based on (8)	Integer	OCL code (see file *pinames.txt*)
SECONDARY HEADER -entries 5-10 repeated based on number read in (4)			
1. Bytes in next field	1	I1	if "0" go to Biological Header
2. Total bytes for second headers	based on (1)	Integer	
3. Bytes in next field	1	I1	
4. Number of entries **(S)**	based on (3)	Integer	read fields 5-10 **S** times
5. Bytes in next field	1	I1	
6. Second header code	based on (5)	Integer	
7. Significant figures	1	I1	
8. Total figures	1	I1	
9. Precision of value	1	I1	
10. Value	based on (8)	based on (7-9)	
BIOLOGICAL HEADER - entries 5-10 repeated based on number read in (4)			
1. Bytes in next field	1	I1	if "0" go to Profile Data
2. Total bytes for biology	based on (1)	Integer	
3. Bytes in next field	1	I1	
4. Number of entries **(B)**	based on (3)	Integer	read 5-10 **B** times
5. Bytes in next field	1	I1	
6. Biological header code	based on (5)	Integer	OCL code (*see Table 9*)
7. Significant figures	1	I1	
8. Total figures	1	I1	
9. Precision of value	1	I1	
10. Value	based on (8)	based on (7-9)	

OCL ASCII FORMAT FOR INTEGRATED, TAXONOMIC, AND PROFILE DATA

FIELD	LENGTH	FORMAT	DESCRIPTION
TAXONOMIC DATA SETS AND INTEGRATED PARAMETERS - entries 3-11 repeated based on number read in (2)			
1. Bytes in next field	1	I1	if "0" go to next to next section
2. Number of taxa sets **(T)**	based on (1)	Integer	
3. Bytes in next field	1	I1	read fields 3-11 **T** times
*4. Number of entries for each taxa set **(X)***	based on (3)	Integer	
5. Bytes in next field	1	I1	read fields 5-11 **X** times
6. Taxa or integrated parameter code	based on (5)	Integer	OCL code (see *Table 10*)
7. Significant figures	1	I1	
8. Total figures	1	I1	
9. Precision	1	I1	
10. Value	based on (5)	based on (7-9)	
11. Quality control flag for value	1	I1	see *Table 16*
12. Originator's flag	1	I1	always "0"in WOD01
PROFILE DATA - all steps repeated based on number of levels **(L)** listed in the primary header			
1. Number depth sig. figs.	1	I1	
2. Total figures in depth	1	I1	
3. Precision of depth value	1	I1	
4. Depth value	based on (2)	based on (1-3)	
5. Depth error code	1	I1	see *Appendix 4*
6. Originator's depth error flag	1	I1	see flags associated with project (*see Appendix 4*)
7. Value sig. figs.	1	I1	steps 7-12 repeated for each variable or **N** times
8. Total figures in value	1	I1	
9. Precision of value	1	I1	
10. Value	based on (8)	based on (7-9)	
11. Value quality control flag	1	I1	see file: *origflag.txt*
12. Originator's flag	1	I1	see flags associated with project (*see Appendix4*)